



Survivability/Vulnerability Information Analysis Center

The Survivability/Vulnerability Information Analysis Center (SURVIAC) is the US Department of Defense (DoD) institution for collecting, analyzing, and disseminating Scientific and Technical Information (STI) related to all aspects of survivability and lethality for aircraft, ground vehicles, ships, and spacecraft against conventional threats, including chemical, biological, directed-energy, non-lethal weapons, and all aspects of homeland security.

SURVIAC's scope covers the survivability of US systems to threat weapons and to the effectiveness of US weapons against foreign systems. Non-nuclear weapons include conventional missiles and guns, Directed-Energy Weapons (DEWs), and chemical and biological weapons. Weapon systems include fixed- and rotary-winged aircraft (both manned and unmanned), missiles, tanks, trucks, armored personnel carriers, artillery, radar vans, ships, and spacecraft. Data holdings include relevant survivability and lethality information on acquisition, detection, tracking, launch, fly-out and fuzing characteristics; the countermeasures and counter-countermeasures employed; terminal effects, system design, performance and operational information; acoustics, infrared, optical, electro-optical and radar signatures; combat damage and repair; and component Probability of Kill Given a Hit (Pk/h) data and combat-history data.

Homeland Security encompasses intelligence and warnings, border and transportation security, domestic counterterrorism,

protecting critical infrastructures, defending against catastrophic threats, and emergency preparedness and response.

SURVIAC is a DoD Information Analysis Center (IAC) sponsored by the Joint Aircraft Survivability Program Office (JASPO) and Joint Technical Coordinating Group on Munitions Effectiveness (JTCG/ME).

LIBRARIES AND DATABASES

SURVIAC's information resources are maintained in computerized databases, original reports, and computer-indexed reference libraries. SURVIAC databases contain thousands of items that span detailed combat incidents, damage-repair and maintenance information, and sophisticated system and subsystem test data. The most recent expansion in technical scope is into Homeland Security (HLS). SURVIAC has already begun to build technical resources—libraries, data, and expertise—to address HLS requirements. At the same time, SURVIAC continues to expand its data resources in non-nuclear survivability and lethality as

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applicable to present and projected aeronautical and surface targets and threats. Continued expansion of SURVIAC's databases will reflect the inclusion of data from ongoing and programmed live-fire tests on a wide variety of aeronautical and surface weapon systems.

MODELS

SURVIAC maintains and disseminates codes and documentation for survivability and lethality models, provides technical advice regarding their use, conducts model user meetings for data exchange, and is the clearing house for changes and updates to these models in support of the model manager. SURVIAC is also familiar with and provides advice and recommendations on many other models in coordination with the Modeling and Simulation Information Analysis Center (MSIAC). SURVIAC continues to build and maintain a complete set of survivability and lethality models as they qualify for entry within its technical charter. The SURVIAC Technical Coordinating Group reviews and approves additional models in response to community requirements.

PRODUCTS AND SERVICES

SURVIAC has staff experts to respond to users' specific inquiries. SURVIAC personnel locate information from the IAC's extensive resource base, advise on problem-solving

methodologies, or conduct original research in response to requests. To augment the SURVIAC staff, we also maintain an active Subject Matter Expert (SME) database drawn from professionals throughout the community.

SURVIAC maintains a comprehensive publications program, including a quarterly current-awareness bulletin, white papers, special reports, engineering handbooks and data books. SURVIAC also hosts and sponsors symposia and workshops on pressing survivability issues.

TECHNICAL AREA TASKS

Technical Area Tasks (TATs) originate from user requests for specialized expertise or quick-reaction analyses beyond the scope of normal inquiry response. Special studies and tasks allow users to tap directly into SURVIAC as a center of survivability excellence.

The technical areas within the SURVIAC mission and charter include survivable conventional force requirements, survivability technologies, optimizing survivability, live-fire testing, methodology advancement, support of combat operations, and homeland security and homeland defense. These areas encompass the full range of threats and targets in SURVIAC's technical area and address survivability and lethality issues throughout the weapon-system acquisition cycle from concept formulation through deployment and employment.

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